

**We Claim:**

1. A method of making a medical oxygen concentrator for delivering a flow of oxygen enriched air to a patient, comprising the steps of:

making an oxygen rich air generator unit to produce oxygen enriched air from atmospheric air, including:

a mounting structure;

a compressor connected to the mounting structure;

one or more valves in communication with the compressor and connected to the mounting structure; and

one or more sieve beds in selective communication with the compressor by way of the one or more valves and connected to the mounting structure; and

providing a concentrator cabinet, the cabinet mounting one or more components selected from the group consisting of a flow meter, a flow regulator, a patient gas delivery device and a control panel; and

mounting the oxygen rich air generator unit to the concentrator cabinet and connecting the oxygen rich air generator to one or more of said components that are mounted to the concentrator cabinet.

2. A method of making a medical oxygen concentrator as claimed in claim 1, wherein the oxygen rich air generator includes an oxygen enriched air tank.

3. A method of making a medical oxygen concentrator as claimed in claim 1, wherein the oxygen rich air generator is replaceable as a unit.

4. A method of repairing a medical oxygen concentrator, comprising the steps of:

unfastening from a cabinet of the oxygen concentrator an oxygen rich air generator unit that produces oxygen enriched air from atmospheric air, the oxygen rich air generator having a chassis and at least the following components mounted to the chassis: a pump, one or more valves and one or more sieve beds for producing oxygen enriched air;

removing the oxygen rich air generator unit from the cabinet;

placing a different oxygen rich air generator unit into the cabinet of the oxygen concentrator in place of the oxygen rich air generator unit that was removed from the cabinet; and

fastening the replacement oxygen rich air generator unit to the cabinet.

5. A method as claimed in claim 4, further comprising the step of repairing the removed oxygen rich air generator at a central repair facility that is at a location away from the location of the oxygen concentrator.

6. A method of doing business in the field of supplying medical oxygen concentrator manufacturers with components for making medical oxygen concentrators, comprising the steps of supplying to the manufacturer an oxygen rich air generator unit having two or more oxygen concentrator components selected from the group consisting of a pump, one or more sieve beds, one or more valves, an exhaust cooling system and a pump cooling system assembled into the oxygen rich air generator unit, the oxygen rich air generator unit to be received by the oxygen concentrator manufacturer and mounted by the oxygen concentrator manufacturer as a unit to a cabinet of the oxygen concentrator.

7. A method of doing business as claimed in claim 6, wherein the oxygen rich air generator unit is connected by the oxygen concentrator manufacturer to one or more other components selected from the group consisting of a flow meter, a flow regulator, a patient gas delivery device and a control panel.